MAY 1 2 7003		• #10/Revo
HAY 1 2 2003 Funder the Paperwork Reduction Act of 1995, no persons are	U.S. Patent and required to respond to a collection of	PTO/SB/81 (10-00) Approved for use through 10/31/2002. OMB 0651-0035 Trademark Office; U.S. DEPARTMENT OF COMMERCE information unless it display a valid OMB control number.
REVOCATION AND SUBSTITUTE POWER OF ATTORNEY OR	Application Number	See Attached Appendix A
CATION AND SUBSTITUTE	Filing Date	See Attached Appendix A
POWER OF ATTORNEY OR	First Named Inventor	See Attached Appendix A
AUTHODIZATION OF ACENT	Group Art Unit	Not yet known

**Examiner Name** 

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application, and I

**Attorney Docket Number** 

Not yet known

See Attached Appendix A

23546/01000/SF/5097417.1

**AUTHORIZATION OF AGENT** 

hereby appoint:

⊠ P	ractitioner(s)	) named below:				
No. 39,90	1; Matthew G	Grumbling, Reg. No. 4	ernstein, Reg. No. 37,2 44, 427; Donna T. Ward , Reg. No. 41,310; Susa	l, Reg. No	o. 48,271; Kenneth Tar	lo. 44,508; Neil Bartfeld Reg. rbet, Reg. No. 43,181; Laura
as my/our Patent and	attorney(s) o d Trademark	or agent(s) to prosecut Office connected the	ite the application ident rewith.	ified abo	ve, and to transact all t	business in the United States
Please ch	ange the con	respondence address	s to, and associate the a	above-ide	entified application with	1:
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⊠ p	ractitioners ?	at Customer Number				
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Appli	icant/Invento	ır.				
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		rd of 100% interest. S 37 CFR 3.73(b) is end	See 37 CFR 3.71. closed. (Form PTO/SB	3/96).		'
		<del></del>	RE of Applicant or Ass		f Record	
Name	B. Lynne I	Parshall				
Title	<del></del>	Vice President				
Signature		,				
Date /	//	4/21/3				
NOTE: Signatures of a than one signature is re	all the inventor	s or assignees of record	I of the entire interest or the	neir repres	sentative(s) are required.	Submit multiple forms if more
☑ *Total of 1 forms	are submitter	1				

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date

Signature

B. Lynne Parshall

Name

Executive Vice President and CFO

Title

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		Assignee: I	Assignee: ISIS PHARMACEUTICALS INC				A OF	
ISIS No.	Atty Docket No.	Application No.	Accionore			Ĺ	· L	्र
		Filing Date:		Group Art Unit	Keel	Frame	Recorded	
H1S-0002	23546-07658	10/187,110 06/29/2002	Donna T. Ward Kenneth W. Dobie	1653	013076	0173	06/29/02	
Title: Anti	Antisense Modulation of ADAM1	DAM12 Expression	1 .1					
								T
HIS-0010	23546-07659	10/178,258	Kenneth W. Dobie	1645	013041	0242	06/20/02	
Title: Antis	Antisense Modulation of Heme Oxygenase 1 Expression	leme Oxygenase 1 E	xpression					$\neg \tau$
								T
H1S-0013	23546-07660	10/211,859	Brett P. Monia	1653	013172	0152	07/31/02	$\top$
Title. Anti-	Company Manager	07/31/2002	Kenneth W. Dobie			<b> </b>	1	
	Authornse Modulation of Kan GT	an GTPase Activati	Pase Activating Protein 1 Expression	a				T
TYPO DOOD								Г
0700-81m	73546-07661	10/161,983	Donna T. Ward	1635	012975	0748	05/21/02	Т
., T		05/31/2002	Susan M. Freier	) ·		9	70/15/50	
1 Itle: Antis	110e: Antisense Modulation of Rb2/p130 Expression	b2/p130 Expression						7
E C								1
K1S-0213	23546-07663	10/154,708	Andrew T. Watt	1645	012953	0176	05/22/02	_
Title: Antis	Antisense Modulation of CDC-like Kinase 1 Expression	DC-like Kinase 1 Fx	Dression					
			TOTOGO TO					$\neg \tau$
RTS-0266	23546-07664	09/960,143	Brenda F. Baker	1635	012201	0106	09/24/01	$\neg$
		09/24/2001	Susan M. Freier			)	10:1	
Title: Antis	Antisense Modulation of Interleukin 8 Expression	terleukin 8 Express	ion					
בסכט מדת								Т
K1S-029/	23546-07666	09/920,671 08/01/2001	C. Frank Bennett Susan M. Freier	1635	012053	0521	08/01/01	<del></del>
Title: Antisa	Title: Antisense Modulation of CoREST	REST Expression	Denom: 171, 1 1 1101					_
		TOTOL WITH AND				-		_

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		Assignee: IS	ASSIGNEE: ISIS PHARMACEUTICALS, INC.	CALS, INC.			MARK
ISIS No.	Atty Docket No.	Application No. Filing Date:	Assignors	Group Art	Reel	Frame	Recorded
$\overline{}$	23546-07667	10/159,266 05/31/2002	Kenneth W. Dobie	1633	012956	0945	05/31/02
Title: Antise	Antisense Modulation of Cathepsin Z Expression	athepsin Z Express	ion				
RTS-0337	23546-07700	10/006,883	Kenneth W. Dobie Mark P. Roach	1645	012372	0660	12/05/01
Title: Antise	Antisense Modulation of NOD1 Expression	OD1 Expression					
RTS-0256	23546-07701	10/003,919	C. Frank Bennett	1645	012360	9650	12/06/01
Title: Antise	Title: Antisense Modulation of SHIP-1	HIP-1 Expression					
PTS-0042	23546-07703	10/118,779 07/02/2002	Nicholas M. Dean, Susan M. Freier,	1646	013075	0834	07/02/02
Title: Antise	Antisense Modulation of Cyclin-D	vclin-Dependent Ki	Pependent Kinase 4 Expression				
PTS-0044	23546-07704	10/173,902	Brett P. Monia Kenneth W. Dobie	1646	013023	0118	06/17/02
Title: Antise	nse Modulation of G	Protein-Coupled Re	Title: Antisense Modulation of G Protein-Coupled Receptor 39 Expression				
PTS-0045	23546-07705	,896 2002	C. Frank Bennett Kenneth W. Dobie	1645	013050	0407	06/20/02
Title: Antiser	Antisense Modulation of Phosphal	ipase D2 Ext	ression				

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		Assignee: I	Assignee: ISIS PHARMACEUTICALS; INC.	CALS: INC.				÷ '
ISIS No.	Atty Docket No.	Application No. Filing Date:	Assignors	Group Art	Reel	Frame	Recorded	<i>31.5</i> " .
PTS-0047	3546-07706	10/177/798	Brett P. Monia	1645	013058	0389	06/19/02	
Title: Antis	Title: Antisense Modulation of Orphan	rphan G-Protein,	Nemieln W. Doble					- 1
								1
PTS-0048	23546-07707	10/210,428 07/31/2002	C. Frank Bennet Kenneth W. Dobie	1645	013168	9892	07/31/02	
Title: Antis	Antisense Modulation of Hepator	epatoma-Derived (	ma-Derived Growth Factor Expression	sion				
RTS-0204	23546-07708	10/160,787 05/31/2002	Andrew T. Watt	1643	012971	0952	05/31/02	1
Title: Antis	Antisense Modulation for PCTA	PCTAIRE Protein I	IRE Protein Kinase 2 Expression					
RTS-0299	23546-07709	10/159,834 05/31/2002	Kenneth W. Dobie	1633	12960	0946	05/31/02	1
Title: Antis	ense Modulation of Is	oprenylcysteine Ca	Antisense Modulation of Isoprenyleysteine Carhoxyl Methyltransferase Evnression	9ce Evarection				
				more and a second				T
RTS-0354	23546-07710	10/210/802	Susan M. Freier	1632	013168	0717	07/31/02	
Title: Antise	Antisense Modulation of Cyclin-Dependent Kinase 6 Expression	yclin-Dependent Ki	nase 6 Expression					
								Т
KTS-0363	23546-07711	10/144,488 05/10/2002	Brett P. Monia	1645	012909	0713	05/10/02	
Title: Antise	ense Modulation of Fa	rnesyl Transferase	Antisense Modulation of Farnesyl Transferase Beta Subunit Exprassion	ion				-T
			Total Subulit Expless	TOTAL STATE OF THE				$\neg \vdash$
RTS-0365	23546-07712	10/159,856 05/31/2002	Susan M. Freier Kenneth W. Dobie	1633	012974	0419	05/31/02	
Title: Antise	Antisense Modulation of G Protei	Protein-Coupled R	in-Coupled Receptor Kinase 6 Expression	.pecion				$\neg$
			TOTAL ABILITADE O TOTAL	COSTOL			_	_

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		Assignee: I	Assignee: ISIS PHARMACEUTICALS, INC.	CALS			A Property of	230
ISIS No.	Atty Docket No.	Application No. Filing Date:	Assignors	Group Art	Reel	Frame	Recorded	is in
0200 010		D		Office			.	
K1S-0369	23546-07713	10/174,020 06/17/2002	Brett P. Monia Kenneth W. Dobie	1646	013023	9800	06/17/02	
Title: Anti	sense Modulation of H	ypothetical Tumor	Title: Antisense Modulation of Hypothetical Tumor Endothelial Marker Expression	xpression				
RTS-0374	23546-07714	10/174,456	Brett P. Monia	1642	013034	0593	06/17/02	
Title: Antis	sense Modulation of o	G Protein-Coupled	Title: Antisense Modulation of of G Protein-Coupled Receptor 49 Expression	uo			.	
								Ι
RTS-0375	23546-07715	10/100,100	Lex M. Cowsert	1645	013131	1000	07/18/02	
Title: Antis	Antisense Modulation of LAM. D	AM. Domain Kinas	omain Kinase 1 Expression					
1								
KIS-0377	23546-07716	10/185,035	Brett P. Monia	1635	013076	8800	06/28/02	
Title. Antis	once Modulation of D	06/28/2002	Kennth W. Dobie		·		],	
CINTES CARTE	The Antiscuse Mountains of DEAKASI Expression	EXKASI Expressio	n					
RTS-0379	23546-07717	10/187,659	Kenneth W. Dobie	1642	013087	0188	07/01/02	
Title: Antis	Antisense Modulation of P2X4 Expression	X4 Expression						
RTS-0333	23546-07724	10/008/789	C. Frank Bennett	1635	021370	0920	11/08/01	
Title: Antis	Antisense Modulation of Thursid		Kenneth W. Dobie				,	
			itotinone receptor interactor 6 Expression	pression			٠	
HTS-0026	23546-07755	10/293,998	Ming-Yi Chuang	1653	013504	0558	11/11/02	
Title: Modn	Title: Modulation of B Protein County		Neimein w. Doble					
	D-HOME TO TO THE	upied Neceptor Rez Expression	z Expression					

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